1

SEQUENCE LISTING

```
<110> UNIVERSITY OF FLORIDA
<120> METHODS AND COMPOSITIONS FOR TREATMENT OF DISEASES
      ASSOCIATED WITH ABERRANT MICROSATELLITE EXPANSION
<130> 49163-60677PCT
<140>
<141>
<150> 60/551,748
<151> 2004-03-10
<160> 55
<170> PatentIn Ver. 3.3
<210> 1
<211> 5588
<212> DNA
<213> Mus musculus
<400> 1
ggcgacatgc cacagtetet cgccgcagec cgtcgagtcg gggcgctcgc catgeteccg 60
tgacccggac ccggccagtt ccctttcccg tggcgggcat cccggagtcg cgatcccaca 120
atgccccggg cagtcggggc cccggcgggc agcctgcacg gccacgtgag aggttggtac 180
taagaagtgc ctttcctgac gtctctgctg cttggaaccg cttctagagc agcctctgct 240
tttgccttgc ttgctgccag ctagactgac gacagcacat ccgccctcca cctctagccc 300
agacacccca tttctacttc taatcaggag aaaagctctg agtatctgcc attgccctag 360
gctgctttag tttagaagaa aagtttgctg aaaaagtaag ataccttctg ccaggaaatc 420
aaggaggaaa aaaaaaaatc attttctcga ttttgctcta aactgctgca tctgtctatg 480
ccaaactaat caataccgat tgcaccacca aactccatcg caaatcagct gtgaggagat 540
tccctgtcag acaactttgc tgaaagcagc ttggaaattc ggtgtcaaag ggtctgccac 600
gttttcatgc ttgcattttg ggctccaaat tggcactggg aaggggttac tgagcacacg 660
gctgagtcca ggcctcctct aaacacccat ctacttacag tcctggtatt cctctcaaaa 720
ccaaaacctc tttgaattaa cagtttcatg ctgtgaattt ctagcggagg tctttccctt 780
tatattgaag tcacactttt ccatgtgccg ttaaatcggg gacgggggaa gcagcctttc 840
ggacattttc acagttatct cacactctga gttttatcag ttcctatttt gtttagtttt 900
tgtcttttgt tttggttgct gattttttt ttctattttt cttttctt ttcttt 160
tttttctttt tgttttttcc tttttttt tttggagagg ggttgggttt gttggtttca 1020
ttgaacattt aactacctgt aaaatataaa catggctgtt agtgtcacac caattcggga 1080
cacaaaatgg ctaacactgg aagtatgtag agagtttcaa agggggactt gctcacgacc 1140
agacacggaa tgtaaatttg cacatccttc gaaaagctgc caagttgaaa atggacgagt 1200
aatcgcctgc tttgattcac tgaaaggtcg ttgctccaga gagaactgca aatatcttca 1260
tccaccccca cacttaaaaa cacagttaga gataaatggg cggaataact tgattcagca 1320
gaagaacatg gccatgctgg cccagcaaat gcagttagcc aatgccatga tgcccggtgc 1380
cccgttgcag cccgtgccaa tgttttcagt tgcaccaagc ttagccacca gtgcatcagc 1440
agcctttaac ccttacctgg ggcctgtttc cccaagcctg gttccagcag agatcttgcc 1500
gactgcacca atgttggtca cggggaatcc tggagttcca gtgccagcag ctgccgcagc 1560
tgctgcacag aagttaatgc ggacagacag actggaggtg tgtcgagagt accagcgtgg 1620
caattgcaac agaggagaaa atgactgtcg gtttgctcat cctgctgaca gcacaatgat 1680
```

tgataccaat gacaacacag tcactgtctg catggattac atcaagggga gatgctctcg 1740 ggaaaagtgc aaatacttcc atcctcccgc acacctgcaa gccaagatca aggctgccca 1800

ataccaggtc aaccaggctg cagcagcaca ggctgcagct actgcagctg ccatgggaat 1860 tcctcaagct gtacttcccc cattgccaaa gaggcctgct cttgaaaaaa ccaacggtgc 1920 caccgcagtc tttaacactg gtattttcca ataccaacag gctctagcca acatgcagtt 1980

2

acagcagcat acagcatttc tcccaccagg ctcaatattg tgcatgacac ccqctacaaq 2040 tgttgttccc atggtgcacg gtgctacgcc agccactgtg tccgcagcaa caacatctgc 2100 cacaagtgtt cccttcgctg caacagccac agccaaccag atacccataa tatctgccga 2160 acatctgact agccacaagt atgttaccca gatgtagagc tgtcgtcaca aaacaatcat 2220 acaaagagga aaggacagtg tgcttgatta gagtaaggac gacgtcatta gccatattgt 2280 atataccgtc aagcaacaca tacaaaaatc cctcagccac aagacatcca catattgcat 2340 gttaaccaga agaaacgaca acatgggaac ctgctgcaca ctgttgccta cacactttqt 2400 acattcagtt ggtatttgtg ctgaggtgat attcctatct aaaacaacaa cattgtcttt 2460 cttttgtagc acagagttat gcattaaaat atgcatacgt aattagtttc ctatatattc 2520 atgccatctt gaaaagacag actatggtgt gaccatgatt ctattatgta ttggtacgtc 2580 tgtagaccaa gatataattt tttaaaaata agtttatttc tttcaaggtt tacaagtaac 2640 caaggtgcac cttgtattta aaatcgccgt tagagctgag agcgcgcatg cagagtcatt 2700 tttgtttgag agtaatattt ttactgtaat agattgtacg acatggtgag ggagggaact 2760 gacagatgaa tgtgccaagc aaaaccacaa ctgtgtatat tttaaagcac accatggctt 2820 taagtaccat gttgttaagg attctcatga agtgccatag actgtacatc aaattagagt 2880 attatttctt cagtgttatt gtttctggag ccacattttg ttgcttattt gctagtacta 2940 atcaatcaaa gggcaccatt cttttctttt ttgtttttga aaccaaagct gtctcagaaa 3000 tggccaattt aactttacag taacaataga cagcacaaca caaactcaat acagataacc 3060 tttcacatac tggagatata tatgatagat atataaaatt attttaatgc attgtagtgt 3120 aatatttatg catactctac tatataacat gttattcaaa agggatatgc catttctgag 3180 acacaataac aaaaaatgtt tgaggaaatt attttgcttc tatttatagc ctctgtcaaa 3240 agtcaaaaga ctataaatgc tttgcagaaa tgggttcacg tttgcttaaa cgcttcatca 3300 cagtcacatt caaaatagtg actctaaaca aagagaacag cactgtcatc agatgcatga 3360 taaaccaaaa tatgaaaatg ggaaatgttt aattaaccta gtaattgggt gggttaagta 3420 catgggtgaa ttttatatgt gattcttttg ttcagattaa ctgcttatag ccttagaaag 3480 ccttttaaaa aattttaaaa atagatgtgc attcagtttt taagaatgga ttcatccaaa 3540 ggaattcccc ttttttgtgg tttggatgtt gcagctagga aaggctattt ttgctctgtt 3600 cagcagttct aaaatcgctg agtaggggcc aggtcactgg cagttctagt gtggaatggg 3660 agaagtgaga gttctgttat agaactttcc atacttccaa gtttactgca agtttttatg 3720 atctattaaa gccttagatt attacattac gggttggaac ccataccaat gtaatttcaa 3840 tcgtgttaag agagtaatgg tgacttcaca tgttattgta gttagttacg ttatagaata 3900 ttacttattt ttcttgttaa aatgtagttt ttcatttcct acatttattg gattttcatt 3960 ttctattaac agttgaatac catttcagtt tttagactat tgttttatta gattttacca 4020 atgaattttt caaaatacaa aaaaattaaa gtagtttttt cttcataaca tactcagttt 4080 taaattacat gtagtgtcat atgaatatcc gtattattgt taactaaatg atttatattt 4140 tactgattta atattacagt gtaagaatgt cagtcattgt tcttgtctag ttttcattaa 4200 aagaacaaag atcttttata tggatatctt ataaatatat aatcattgct aagtaagaag 4260 ttaagttgtt gctatggcaa caatcctggc agacaattga gtaatatttt gatgatttat 4320 tttgtttgta attagttatt atgagaagat ctagatccta gatattagaa taaaatttat 4380 tttctactgt atccatttca aatgttaaag tattgtttaa tatttttgaa atccctgaat 4440 atcaggcctt gttataaata agctgcataa tcaataaata gaacaaggga ctttttgttg 4500 ataatccaaa tactcaaagt ttacgtaatg agaattttag cgtgtgtgca aactcttgag 4560 ggttgatgat gctgcaattt agcatgttgg aaagtctaga gagaaggttg actttttgca 4620 cttctgtata tagtcaaaag agagaaacct gtataatagc aagatcttat tttgaataaa 4680 aacgtctata attacaagga gttttgttaa ggctaatgaa atgacagact gagcaaaatt 4740 gcttgcaaaa gtggcacaga gttagcactc catacccttc aaacacgtcg ctttgctttt 4800 tgtggacagc ttgtagtttg ccaggatttt tcagctggaa agatttgcca tccttccaag 4860 atctcatgac tgacaaaact ccattgggcc aaatctgcct gaagatcatt accaaaaaat 4920 agcaggtact tcagccacta agatgaaatc atggatcaga tatcccttac attgttttca 4980 aaactactgc atgtttaaaa cttcaacaaa aagagagaaa gaactatgct aaggacatat 5040 attattcaga tcgatatcta ccaatttcag tggtttaatg ttcacaaaat gaaatcttga 5100 aaataactat tgactttcac aaaattttaa ccataaacag gcaaaccaaa cagcacact 5160 gtagttgttc tgtgattgtt ttttaattgc tgtagatcat gttctttccg caggtggaaa 5220 aaaaaaaaa aaaaaaaaa gaagttcaaa tttcacagtt ttaattttca actcagaagc 5280 aaaagagcaa aatgtgacaa tggccacttg tttaatgact tggttgccca gctgtcactg 5340 cagctggcta ctgatgttgc acttaccagc aacccaccca ccttcatctg ccgaaaggac 5400 agtgagcttg gttttacgat tatgtaatca caacttactt tctgcttgta gtggcttaaa 5460

3

attatgtatt ttgtctaggg ctgcaatttg ttttatgctt actttattat tactgcagta 5520 gttgactttg ctgtatggaa aaataaagcg aaattgccct aataaaactt ctctttctta 5580 agtaaaaa 5588

<210> 2 <211> 4527 <212> DNA <213> Mus musculus

<400> 2

agcagtggta acaacgcaga gtacgggggg tgggaaggaa gggctgcagc tcacagcaac 60 agagtttaga ctgtctttgc ttcatcatct gaaggtaaaa ttttccagcc acggccggcg 120 gctcgcagag tacaataaac agggacggag aactatttgc atggaccccc cttcctcatg 180 atgcggtgga gaagccacgg ccactcggtc ctgccagatg ttcttggggt tactgtacat 240 ggggaagacg agcagagcta aacaagaatt taaagaggac gaaggaagga aagcgccatc 300 ctgctcaaat acaaagatct aagagggttg ttttcccaca tcctccaaag ctgtgagcat 360 tagaactaat attttcccaa agagtgccat cgtattaaag ccactttatt aaggaggggt 420 gtatctgcaa aacagtcaag agactagaac cctgggagcc agagatgaca gtgagcacgc 480 actgcttgtg gctcacagtc ttccagtggg gcctatcgat cggtgactga cttcctgctt 540 gctgacacat tccccctccc cggtttcctg gattggactg cattaaagaa ttcactgctt 600 accttcaaac ttacatgttg gagttttcac ggcggttgtt ttgagatcat tgagactcgg 660 attgatttcg acatttaacc gaaaggaaca gagcccaaag tagttctcat catggccttg 720 aacgttgccc ccgtgagaga cacaaagtgg ctgacgctgg aggtctgcag acagtaccag 780 agaggaacgt gctcacgctc cgacgaagaa tgcaagtttg ctcaccccc caaaagttgc 840 caggitgaaa atggaagagt aattgcctgc tttgattccc tcaagggccg ctgttcaaga 900 gagaactgca aatatcttca tcctccgaca cacttaaaaa cccagctaga gattaatggg 960 aggaacaatt tgatccagca aaaaactgca gcagcgatgc ttgcccagca gatgcaattt 1020 atgtttccag gaacgccgct ccatcctgtg cccacttttc ctgtaggtcc caccataggg 1080 acaaatgcgg ctattagctt tgctccttac ttagcgcctg tcacccctgg agttgggtta 1140 gtcccaacag aggttctacc cactacaccg gtcattgttc ccggaagtcc accggtcact 1200 gtcccgggct caactgcaac tcagaaactt ctcaggactg ataaactgga ggtatgcagg 1260 gagttccagc gaggaaactg tgcccgggga gagacagact gccgctttgc acacccggca 1320 gacagcacca tgatcgacac aaacgacaac accgtaaccg tttgtatgga ttacataaag 1380 gggcgttgca tgagggagaa atgcaaatat tttcaccctc ctgcacactt gcaggccaaa 1440 atcaaagetg egeageacea agecaaceag geegeggtgg eegeeeagge ageegeggee 1500 gcggccacag tcatggcctt ccctccgggt gctcttcatc ccttaccaaa gagacaagca 1560 cttgaaaaaa gcaacggggc cagcacggtc ttcaacccca gcgtcttgca ctaccagcag 1620 gctctgacca gtgcgcagct gcagcagcac acggcgttca tccccacagt acccatgatg 1680 cacagogota ogtocgocao tgtototgoa goaacaacto otgoaacaag tgtoccotto 1740 gccaagaatc tgcattgaga ataactaaac attgttactg tacatattac cccgtttcct 1860 cctcaataga attgccacaa actgcatgct aaatttagtt cttctggaca gaccacaacc 1920 ctaaggctag ttctgctatg tcatatatga gtattaaata tggtatgctt agtatactcc 1980 agcctaagat agttaaccac ctgagaccag ctgtgatgtt cgaagacata caggatgagg 2040 ttttctttca cagggttctg agcatagttt ctgtcccagg aatattgtct tatctccata 2100 actatagetg atgeagaaag teeagaeaat atacteattt egaeteagaa tattteaaat 2160 ttagcaataa acagttagct ttagttttaa gtacctattc caagggcagg ttcgattgta 2220 actccaatca caaccatttc atttcctgac tggatcgaag ggtatgattc acttcttgag 2280. gagacggaca gtcgcagcag agagaagtga agtaaaacat acgcctgcct cgcaggtcta 2340 aagtctgagt ggcagctcaa gcacaattgc caggggacac atcagagtgt ggggttcgct 2400 ttgccaggag atgccgcact gaatcatggg attctagaat aacattgcat agattgaaaa 2460 aaaaaaaaaa actttgcacg gtatgagctt catacccaac ccaacaaagt cttgaaggta 2520 ttattttaca agtatatttt taaagttgtt ttataagaga gactttgtag aagtgcctag 2580 attttgccag acttcatcca gcttgacaag aatgaaaggc tcatgccaat agtcgaatct 2640 aagggattgg tettteaaac tegeceteeg gttgeetgtt accgaataac tettetaaac 2700 taaaacctag tcaaacaggg aagctgtagg tgaggaggtc tgtataatat tccagtttaa 2760

gtacgtctga gtttagtcac tacagatgca aactgtgact ttaatctaaa ttactatgta 2820

4

```
aacgaaaaaa aaaagtagat agtttcactt tttaaaaact ccattactgt ttttgcattt 2880
taagagttgg attaaagggt tgtaagtaac tgcagcatgg aaaaatagtt cttttaattc 2940
tttcacctta aagcatattt tatgtctcaa aagtataaaa aactttaata caagtacaca 3000
catattatat atacacatac atatatac tatatatgga tgaaacatat tttaatgttg 3060
tttacttttt ttaaatactt ggttgatctt caaggtaata gcgatacaat taaattttgt 3120
tcagaaagtt tgttttaaag tttattttaa gcactatcgt accaaatatt tcatatttca 3180
cattttatat gttgcacata gcctacacag tacctacata gtttttaaat tattgtttaa 3240
gaaatgaaac agctgttata aatggatatt atgtgtaatt gtttaaaaca tccattttct 3300
ttgtgaacat tttagtgatt gaagtatttt gacttttgag attgaatgta aaatatttta 3360
aattttggta tcatcgcctg ttctgaaaac tagaggcatc caaccatatc attttttttg 3420
attgaaaaaa gatctgcatt taattcatgt tggtcaaagt ctaattacta tttatcttac 3480
atcatagatc tgataactgt atcgaaaaga gaaatcacat tctgagtgta atcttgcata 3540
gtgcttgtgt cgtgtttgtt tttaatttgt ggaaaggtat tgtatctaac ttgtatcacc 3600
ttgatagttc tcatctttat gtattattga tatttgtaat ttcctcagct ataacaatgt 3660
agttacgcta caacttgcct aaaacactca tacttttttt tttctttact tactcattta 3720
aactcattga gaagatagta gactaaaaag gtaaattatg ggaatcactg aaatattttt 3780
gtagactaat tgttgtaact gtcctttctt cctttcattt catgattttt attttaaaaa 3840
ttattagcac atagctattt tcagcccttt aataactgat catcaaaaca tcacctgtat 3900
ccccagcca atatagatga ctgtattttt tactatgata tccattttcc agaattgtga 3960
ttataatatg cagagtcaaa tatgccattt acaataagga ggaggccagg caaatgcata 4020
gatgtacaaa tatatgtaca acagattttg ctttttattt atttataatg taattttata 4080
gaataattct gggatttgag aggatctaaa actatttttc tgtataaata ttatttgcca 4140
aaagtttgtt tatattcaga agtctgacta tgatggataa atcttaaatg ctttgtttaa 4200
ttacaaaaac aaaatcacca atatccaaga caggaagatc tcagttcaac agctccggta 4260
gttagggaac taactccact tgcacaggac ttcatttcac tcttggtttt caggctataa 4320
cagcacttca cagaactatt ctttcagcca tacaccactg gtcacatttc tactaaatct 4380
ttctgtaaca cttcttaaag aattccctca ttcgttatct tacagtgtaa acaggactct 4440
aatttgtatc aattatatgt tttggttgta atattcagtt cactcaccca atgtacaacc 4500
aatgaaataa aagaagcatt taaaagg
                                                                  4527
```

<210> 3 <211> 1967 <212> DNA

<213> Mus musculus

<400> 3

ctgaaggatc acgtaactca gaaaatctaa aacacattat gtgtccaaat cagttcttct 60 gagttacgcg gacgcgtggg tttcacgacg caagtgcgtc ctacaggaag aaagtgcccc 120 cagtcggagc gcgagcagga gcgcgacttt ttggcgctct ttgcgagcga gccgcaagga 180 ggcggaagac ggtcccgggc cggggcgcgg gaatcggggc agcgagcgcc gcacggggga 240 gttcctgcgc gtggcgtcct cgcagcgaga cgccgctgga gtcgctcact cggagagatt 300 ccttgaacca tctgcagtca taatattctc tgaagagggt gcacttgatt gccaatttgc 360 tctcagtatg acacctgtca atgtagctct aatccgtgat accaagtggc tgactttaga 420 agtctgtaga gaatttcaga gaggaacttg ctctcgagct gatgcagagt gcaggtttgc 480 ccatccgcca agagtttgcc atgtggaaaa tggccgagtg gtggcctgtt ttgattcact 540 aaagggtcgg tgcactcgtg agaactgcaa gtacctccac cctccaccgc acttaaagtc 600 gcagctagaa gttaatggga gaaacaatct gattcaacag aagactgccg cagccatgtt 660 cgcccagcac atgcaactca tgctgcagaa cgctcagatg tcatctcttg cgtcttttcc 720 tatgaatcca tcacttgcag ctaatcctgc catggctttc aatccttaca tgactcatcc 780 tggcatgggc ctggttcctg ctgagctttt accaaatggt ccggttctga tttctggaaa 840 ccctcctctt gcactgccag gagttcctgg tccaaagcca attcgtacag atagactgga 900 ggtttgccgt gaatttcagc gtggaaattg tacccgtggg gagagcgagt gccgctatgc 960 tcaccctacg gatgtttcca tgattgaagt cactgataat tctgtgacaa tctgcatgga 1020 ttacattaaa ggccgatgct cccgggagaa atgcaagtac tttcatcctc ctccccactt 1080 gcaggccaaa ctcagggcag ctcatcacca gatgaaccat tctgctgcca atgcaatggc 1140 cctgccgcat ggtgcacttc aactgatacc aaagaggtca gcccttgaca aggccaatgg 1200 tgccactcca gtctttaacc ccagtgtttt ccactgccaa caggctctgg ctaacatgca 1260

```
gattcctcag caggetttta tcccaacagt gcccatgatg cacggtgcta caccttccac 1320
tgtgtctaca gcaacaccac ctgccagcaa cgttccctac gttccaacaa ctacaggcaa 1380
ccagttgaaa tattgagcag cagagttaca gagtatcaga atctctcaac aagaaactcc 1440
gtgtggcctt tctatatgta ttctcgtatg tcttcttgta ccaacacgac aataagcatg 1500
gtgcagtcaa tatactaaag cgcatatacc tgttgacaaa ttcaaatttt aaaaatctgt 1560
ggagatgtta aagcaaatag aaaattaacc agtatgtgtt accttatacg gattcattgt 1620
atatgaatta gcatacaata tacaaccata caggtttgtc atgtatatga attatcagat 1680
ccatattaca tgaattttcc atatgatatg aattaccata ttgaatataa ctgtaaaatg 1740
ttgtgactgc tttccagtaa tggtttataa taaatgaact tccacagtgt actgtaggct 1800
tactgtatac tcttggtgga taaattctgt tttggaagtg ttaccttact gttttgttta 1860
caagatagtc tataggattg atgtagaatg taactgatat ttcccacacc attttcctcc 1920
attggtatat tgtattaaat tgggttctgc ttaaaaaaaa aaaaaaa
                                                                   1967
<210> 4
<211> 32
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      Primer
<400> 4
tgggatggaa ttgtggtgtg ttgttgctca tg
                                                                   32
<210> 5
<211> 27
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      Primer
<400> 5
tccatttgtc acgtcctgca ccgacgc
                                                                   27
<210> 6
<211> 35
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      Primer
<400> 6
ctacgatggc tggctgcaat atgcctcact gtaag
                                                                   35
<210> 7
<211> 36
<212> DNA
<213> Artificial Sequence
```

<220> <223> Description of Artificial Sequence: Synthetic Primer	
<400> 7 gggttgaatc tcgttaggga cactgggtgt ctgtaa	36
<210> 8 <211> 35 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic Primer	
<400> 8 ctacgatggc tggctgcaat atgcctcact gtaag	35
<210> 9 <211> 36 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic Primer	
<400> 9 gggttgaatc tcgttaggga cactgggtgt ctgtaa	36
<210> 10 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic Primer	
<400> 10 tggcagaccc tttgacaccg	20
<210> 11 <211> 27 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic Primer	
<400> 11 tagtgtcaca ccaattcggg acacaaa	27

7

<210> <211>		
<212><213>	DNA Artificial Sequence	
<220>	Description of Artificial Sequence: Synthetic	
\223 <i>></i>	Primer	
<400>	12 gatgt aatccatgca gacagtga	28
<210><211>		
<212>	DNA	
	Artificial Sequence	
<220>	Description of Artificial Sequence: Synthetic	
\ 2237	Primer	
<400>		
tgcacg	ggtgc tacgccagcc	20
<210>		
<211>		
<212>		
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Synthetic Primer	
<400>		
gtgacg	gacag ctctacatct gggtaaca	28
<210>		
<211>		
<212>		
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Synthetic Primer	
<400>		0.4
ceuget	gcac actgttgcct acac	24
<210>		
<211>		
<212>	DNA	

<213> Artificial Sequence

<220> <223>	Description of A	Artificial	Sequence:	Synthetic	
<400> tgtcag	16 gttcc ctccctcacc	atgt			24
<210><211><211><212><213>	22	ence			
<220> <223>	Description of A	Artificial	Sequence:	Synthetic	
<400> ggaata	17 acctc acactcaagg	cc			22
<210><211><212><212><213>	25	ence			
<220> <223>	Description of A	Artificial	Sequence:	Synthetic	
<400> cacgga	18 aacac aaaggcactg	aatgt			25
<210><211><212><212><213>	23	ence			
<220> <223>	Description of A Primer	Artificial	Sequence:	Synthetic	
<400> gccgag	19 ggagg tggtggagga	gta			23
<210><211><211><212><213>	24	ence			
<220> <223>	Description of A	Artificial	Sequence:	Synthetic	

<400> 20 gtctcagcct caccctcagg ctca	24
<210> 21 <211> 22 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic Primer	
<400> 21 tctgacgagg aaactgaaca ag	22
<210> 22 <211> 19 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic Primer	
<400> 22 tgtcaatgag ggcttggag	19
<210> 23 <211> 22 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic Primer	
<400> 23 ttcaccatgt ctgacgagga ag	22
<210> 24 <211> 23 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic Primer	
<400> 24 cttctgggat cttaggagca gtg	23

```
<210> 25
<211> 23
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      Primer
<400> 25
ccttgtacca actggagact gac
                                                                    23
<210> 26
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      Primer
<400> 26
tgatggtctc tgctgcagtg
                                                                    20
<210> 27
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      Primer
<400> 27
gacctggaag ctggcaagaa c
                                                                    21
<210> 28
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      Primer
<400> 28
tcccttcgtc attgatgtag gc
                                                                   22
<210> 29
<211> 22
<212> DNA
<213> Artificial Sequence
```

<220> <223> Description of Artificial Sequence: Synthetic Primer	
<400> 29 ccatgaatga caccaacacc ac	22
<210> 30 <211> 21 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic Primer	
<400> 30 ctgagggtga cgatgaagct g	21
<210> 31 <211> 21 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic Primer	
<400> 31 tcttcacggg catcttcact g	21
<210> 32 <211> 21 <212> DNA <213> Artificial Sequence	
<223> Description of Artificial Sequence: Synthetic Primer	
<400> 32 cgccgctgtt caatgtagat g	21
<210> 33 <211> 22 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic Primer	
<400> 33 tgcctctatg tggacatctc cc	22

```
<210> 34
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
       Primer
<400> 34
cgactctttc ttgacgtagg cg
                                                                    22
<210> 35
<211> 21
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      SirNA construct
<400> 35
aacagacaga cuugagguau g
                                                                    21
<210> 36
<211> 21
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      SiRNA construct
<400> 36
aacacggaau guaaauuugc a
                                                                   21
<210> 37
<211> 3641
<212> DNA
<213> Homo sapiens
<400> 37
gctgactcgc ctggctctga gccccgccgc cgcgctcggg ctccgtcagt ttcctcggca 60
gcggtaggcg agagcacgcg gaggagcgtg cgcgggggcc ccgggagacg gcggcggtgg 120
cggcgcgggc agagcaagga cgcggcggat cccactcgca cagcagcgca ctcggtgccc 180
cgcgcagggt cgcgatgctg cccggtttgg cactgctcct gctggccgcc tggacggctc 240
gggcgctgga ggtacccact gatggtaatg ctggcctgct ggctgaaccc cagattgcca 300
tgttctgtgg cagactgaac atgcacatga atgtccagaa tgggaagtgg gattcagatc 360
catcagggac caaaacctgc attgatacca aggaaggcat cctgcagtat tgccaagaag 420
tctaccctga actgcagatc accaatgtgg tagaagccaa ccaaccagtg accatccaga 480
actggtgcaa gcggggccgc aagcagtgca agacccatcc ccactttgtg attccctacc 540
gctgcttagt tggtgagttt gtaagtgatg cccttctcgt tcctgacaag tgcaaattct 600
tacaccagga gaggatggat gtttgcgaaa ctcatcttca ctggcacacc gtcgccaaag 660
```

agacatgcag	tgagaagagt	accaacttgc	atgactacgg	catgttgctg	ccctgcggaa	720
ttgacaagtt	ccgaggggta	gagtttgtgt	gttgcccact	ggctgaagaa	agtgacaatg	780
tggattctgc	tgatgcggag	gaggatgact	cggatgtctg	gtggggcgga	gcagacacag	840
	tgggagtgaa					
	agaagaagcc					
	ggaaccctac					
ccaccaccac	cacagagtct	gtggaagagg	tggttcgaga	ggtgtgctct	gaacaagccg	1080
agacggggcc	gtgccgagca	atgatctccc	gctggtactt	tgatgtgact	gaagggaagt	1140
gtgccccatt	cttttacggc	ggatgtggcg	gcaaccggaa	caactttgac	acagaagagt	1200
actgcatggc	cgtgtgtggc	agcgccatgt	cccaaagttt	actcaagact	acccaggaac	1260
ctcttgcccg	agatcctgtt	aaacttccta	caacagcagc	cagtacccct	gatgccgttg	1320
acaagtatct	cgagacacct	ggggatgaga	atgaacatgc	ccatttccag	aaagccaaag	1380
	ggccaagcac					
cagaacgtca	agcaaagaac	ttgcctaaag	ctgataagaa	ggcagttatc	cagcatttcc	1500
aggagaaagt	ggaatctttg	gaacaggaag	cagccaacga	gagacagcag	ctggtggaga	1560
cacacatggc	cagagtggaa	gccatgctca	atgaccgccg	ccgcctggcc	ctggagaact	1620
acatcaccgc	tctgcaggct	gttcctcctc	ggcctcgtca	cgtgttcaat	atgctaaaga	1680
agtatgtccg	cgcagaacag	aaggacagac	agcacaccct	aaagcatttc	gagcatgtgc	1740
gcatggtgga	tcccaagaaa	gccgctcaga	tccggtccca	ggttatgaca	cacctccgtg	1800
tgatttatga	gcgcatgaat	cagtctctct	ccctgctcta	caacgtgcct	gcagtggccg	1860
aggagattca	ggatgaagtt	gatgagctgc	ttcagaaaga	gcaaaactat	tcagatgacg	1920
tcttggccaa	catgattagt	gaaccaagga	tcagttacgg	aaacgatgct	ctcatgccat	1980
ctttgaccga	aacgaaaacc	accgtggagc	tccttcccgt	gaatggagag	ttcagcctgg	2040
acgatctcca	gccgtggcat	tcttttgggg	ctgactctgt	gccagccaac	acagaaaacg	2100
aagttgagcc	tgttgatgcc	cgccctgctg	ccgaccgagg	actgaccact	cgaccaggtt	2160
ctgggttgac	aaatatcaag	acggaggaga	tctctgaagt	gaagatggat	gcagaattcc	2220
gacatgactc	aggatatgaa	gttcatcatc	aaaaattggt	gttctttgca	gaagatgtgg	2280
gttcaaacaa	aggtgcaatc	attggactca	tggtgggcgg	tgttgtcata	gcgacagtga	2340
tcgtcatcac	cttggtgatg	ctgaagaaga	aacagtacac	atccattcat	catggtgtgg	2400
tggaggttga	cgccgctgtc	accccagagg	agcgccacct	gtccaagatg	cagcagaacg	2460
gctacgaaaa	tccaacctac	aagttctttg	agcagatgca	gaactagacc	cccgccacag	2520
cagcctctga	agttggacag	caaaaccatt	gcttcactac	ccatcggtgt	ccatttatag	2580
aataatgtgg	gaagaaacaa	acccgtttta	tgatttactc	attatcgcct	tttgacagct	2640
gtgctgtaac	acaagtagat	gcctgaactt	gaattaatcc	acacatcagt	aatgtattct	2700
atctctcttt	acattttggt	ctctatacta	cattattaat	gggttttgtg	tactgtaaag	2760
	tatcaaacta					
cccttagcca	gttgtatatt	attcttgtgg	tttgtgaccc	aattaagtcc	tactttacat	2880
atgctttaag	aatcgatggg	ggatgcttca	tgtgaacgtg	ggagttcagc	tgcttctctt	2940
gcctaagtat	tcctttcctg	atcactatgc	attttaaagt	taaacatttt	taagtatttc	3000
agatgcttta	gagagatttt	ttttccatga	ctgcatttta	ctgtacagat	tgctgcttct	3060
gctatatttg	tgatatagga	attaagagga	tacacacgtt	tgtttcttcg	tgcctgtttt	3120
	attaggcatt					
gtctttgata	aagaaaagaa	tccctgttca	ttgtaagcac	ttttacgggg	cgggtgggga	3240
	gctggtcttc					
	tcattgctta					
	accccgggca					
	tgggtgggga					
	acaaaagaag				- -	
tgcctggaca	aacccttctt	ttaagatgtg	tcttcaattt	gtataaaatg		
	acattcttgg					3641

<210> 38

<211> 3150

<212> DNA

<213> Homo sapiens

14

<400> 38 aagcttatcg atccgtcgac ctcgaggggg ggcccgcgtt cgccgcgcag agccaggccc 60 gccgggcgag cccatgagca ccatgcgcct gctgacgctc gccctgctgt tctcctgctc 120 cgtcgcccgt gccgcgtgcg accccaagat cgtcaacatt ggcgcggtgc tgagcacgcg 180 gaagcacgag cagatgttcc gcgaggccgt gaaccaggcc aacaagcggc acggctcctg 240 gaagattcag ctcaatgcca cctccgtcac gcacaagccc aacgccatcc agatggctct 300 gtcggtgtgc gaggacctca tctccagcca ggtctacgcc atcctagtta gccatccacc 360 tacccccaac gaccacttca ctcccacccc tgtctcctac acagccggct tctaccgcat 420 acceptgetg gggetgacea ecegeatgte catetacteg gacaagagea tecacetgag 480 cttcctgcgc accgtgccgc cctactccca ccagtccagc gtgtggtttg agatgatgcg 540 tgtgtacagc tggaaccaca tcatcctgct ggtcagcgac gaccacgagg gccgggccgc 600 tcagaaacgc ctggagacgc tgctggagga gcgtgagtcc aagagtaaaa aaaggaacta 660 tgaaaacctc gaccaactgt cctatgacaa caagcgcgga cccaaggcag agaaggtgct 720 gcagtttgac ccagggacca agaacgtgac ggccctgctg atggaggcga aagagctgga 780 ggcccgggtc atcatccttt ctgccagcga ggacgatgct gccactgtat accgagcagc 840 cgcgatgctg aacatgacgg gctccgggta cgtgtggctg gtcggcgagc gcgagatctc 900 ggggaacgcc ctgcgttacg ccccggacgg catcctcggg ctgcagctca tcaacggcaa 960 gaacgagtcg gcccacatca gcgacgccgt aggcgtggtg gcccaggccg tgcacgagct 1020 cctcgagaag gagaacatca ccgacccgcc gcggggctgc gtgggcaaca ccaacatctg 1080 gaagaccggg ccgctcttca agagagtgct gatgtcttcc aagtatgcgg atggggtgac 1140 tggtcgcgtg gagttcaatg aggatgggga ccggaagttc gccaactaca gcatcatgaa 1200 cctgcagaac cgcaagctgg tgcaagtggg catctacaat ggcacccacg tcatccctaa 1260 tgacaggaag atcatctggc caggcggaga gacagagaag cctcgagggt accagatgtc 1320 caccagactg aagattgtga cgatccacca ggagcccttc gtgtacgtca agcccacgct 1380 gagtgatggg acatgcaagg aggagttcac agtcaacggc gacccagtca agaaggtgat 1440 ctgcaccggg cccaacgaca cgtcgccggg cagccccgc cacacggtgc ctcagtgttg 1500 ctacggcttt tgcatcgacc tgctcatcaa gctggcacgg accatgaact tcacctacga 1560 ggtgcacctg gtggcagatg gcaagttcgg cacacaggag cgggtgaaca acagcaacaa 1620 gaaggagtgg aatgggatga tgggcgagct gctcagcggg caggcagaca tgatcgtggc 1680 gccgctaacc ataaacaacg agcgcgcgca gtacatcgag ttttccaagc ccttcaagta 1740 ccagggcctg actatgctgg tcaagaagga gattccccgg agcacgctgg actcgttcat 1800 gcagccgttc cagagcacac tgtggctgct ggtggggctg tcggtgcacg tggtggccgt 1860 gatgctgtac ctgctggacc gcttcagccc cttcggccgg ttcaaggtga acagcgagga 1920 ggaggaggag gacgcactga ccctgtcctc ggccatgtgg ttctcctggg gcgtcctgct 1980 caactccggc atcggggaag gcgccccag aagcttctca gcgcgcatcc tgggcatggt 2040 gtgggccggc tttgccatga tcatcgtggc ctcctacacc gccaacctgg ccgctttcct 2100 ggtgctggac cggccggagg agcgcatcac gggcatcaac gaccctcggc tgaggaaccc 2160 ttctgacaag tttatctact ccacggtgaa gcagagctcc gtggatatct acttccggcg 2220 ccaggtggag ctgagcacca tgtaccggca tatggagaag cacaactacg agagtgcggc 2280 ggaagccatc caggccgtga gagacaacaa gctgcatgcc ttcatctggg actcggcggt 2340 . gctggagttc gaggcctcgc agaagtgcga cctggtgacg actggagagc tgtttttccg 2400 ctcgggcttc ggcataggca tgcgcaaaga cagcccctgg aagcagaacg tctccctgtc 2460 catcctcaag tcccacgaga atggcttcat ggaagacctg gacaagacgt gggttcggta 2520 tcaggaatgt gactcgcgca gcaacgcccc tgcgaccctt acttttgaga acatggccgg 2580 ggtcttcatg ctggtagctg ggggcatcgt ggccgggatc ttcctgattt tcatcgagat 2640 tgcctacaag cggcacaagg atgctcgccg gaagcagatg cagctggcct ttgccgccgt 2700 taacgtgtgg cggaagaacc tgcagcagta ccatcccact gatatcacgg gcccgctcaa 2760 cctctcagat ccctcggtca gcaccgtggt gtgaggcccc cggaggcgcc cacctgccca 2820 gttagcccgg ccaaggacac tgatgggtcc tgctgctcgg gaaggcctga gggaagccca 2880 cccgccccag agactgccca ccctgggcct cccgtccgtc cgcccgccca ccccgctgcc 2940 tggcgccacc ctgctggacc aaggtgcgga ccggagcggc tgaggacggg gcagagctga 3000 gtcggctggg cagggcgcag gcgcgtgcac ggcagaggca gggcctgggg tctctgagca 3060 gtggggagcg ggggctaact ggcccaggcg gagggccttg gagcagagac ggcagccca 3120° tccttcccgg cagcaccagc gtgagggcca 3150

15

<210> 39

<211> 2796 <212> DNA <213> Homo sapiens <400> 39 cctcccctgg ggaggctcgc gttcccgctg ctcgcgcctg ccgcccgccg gcctcaggaa 60 cgcgccctct cgccgcgcg gccctcgcag tcaccgccac ccaccagctc cggcaccaac 120 agcagegeeg etgecacege ceacettetg eegeegeeae caeageeaee tteteeteet 180 ccgctgtcct ctcccgtcct cgcctctgtc gactatcagg tgaactttga accaggatgg 240 ctgagccccg ccaggagttc gaagtgatgg aagatcacgc tgggacgtac gggttggggg 300 acaggaaaga tcaggggggc tacaccatgc accaagacca agagggtgac acggacgctg 360 gcctgaaaga atctcccctg cagaccccca ctgaggacgg atctgaggaa ccgggctctg 420 aaacctctga tgctaagagc actccaacag cggaagatgt gacagcaccc ttagtggatg 480 agggagetee eggeaageag getgeegege ageeceaeae ggagateeea gaaggaacea 540 cagctgaaga agcaggcatt ggagacaccc ccagcctgga agacgaagct gctggtcacg 600 tgacccaagc tcgcatggtc agtaaaagca aagacgggac tggaagcgat gacaaaaaag 660 ccaagggggc tgatggtaaa acgaagatcg ccacaccgcg gggagcagcc cctccaggcc 720 agaagggcca ggccaacgcc accaggattc cagcaaaaac cccgcccgct ccaaagacac 780 cacccagctc tggtgaacct ccaaaatcag gggatcgcag cggctacagc agccccggct 840 ccccaggcac tcccggcagc cgctcccgca ccccgtccct tccaacccca cccacccggg 900 agcccaagaa ggtggcagtg gtccgtactc cacccaagtc gccgtcttcc gccaagagcc 960 gcctgcagac agccccgtg cccatgccag acctgaagaa tgtcaagtcc aagatcggct 1020 ccactgagaa cctgaagcac cagccgggag gcgggaaggt gcagataatt aataagaagc 1080 tggatcttag caacgtccag tccaagtgtg gctcaaagga taatatcaaa cacgtcccgg 1140 gaggcggcag tgtgcaaata gtctacaaac cagttgacct gagcaaggtg acctccaagt 1200 gtggctcatt aggcaacatc catcataaac caggaggtgg ccaggtggaa gtaaaatctg 1260 agaagcttga cttcaaggac agagtccagt cgaagattgg gtccctggac aatatcaccc 1320 acgtccctgg cggaggaaat aaaaagattg aaacccacaa gctgaccttc cgcgagaacg 1380 ccaaagccaa gacagaccac ggggcggaga tcgtgtacaa gtcgccagtg gtgtctgggg 1440 acacgtctcc acggcatctc agcaatgtct cctccaccgg cagcatcgac atggtagact 1500 cgccccagct cgccacgcta gctgacgagg tgtctgcctc cctggccaag cagggtttgt 1560 aaaaagaata atgacccggc ccccgccctc tgcccccagc tgctcctcgc agttcggtta 1680 attggttaat cacttaacct gcttttgtca ctcggctttg gctcgggact tcaaaatcag 1740 tgatgggagt aagagcaaat ttcatctttc caaattgatg ggtgggctag taataaaata 1800 tttaaaaaaa aacattcaaa aacatggcca catccaacat ttcctcaggc aattcctttt 1860 gattcttttt tcttccccct ccatgtagaa gagggagaag gagaggctct gaaagctgct 1920 tctgggggat ttcaagggac tgggggtgcc aaccacctct ggccctgttg tgggggttgt 1980 cacagaggca gtggcagcaa caaaggattt gaaaactttg gtgtgttcgt ggagccacag 2040 gcagacgatg tcaaccttgt gtgagtgtga cgggggttgg ggtggggcgg gaggccacgg 2100 gggaggccga ggcaggggct gggcagaggg gaggaggaag cacaagaagt gggagtggga 2160 gaggaagcca cgtgctggag agtagacatc ccctccttg ccgctgggag agccaaggcc 2220 tatgccacct gcagcgtctg agcggccgcc tgtccttggt ggccgggggt gggggcctgc 2280 tgtgggtcag tgtgccaccc tctgcagggc agcctgtggg agaagggaca gcgggttaaa 2340 aagagaaggc aagcctggca ggagggttgg cacttcgatg atgacctcct tagaaagact 2400 gaccttgatg tcttgagagc gctggcctct tcctccctcc ctgcagggta gggcgcctga 2460 gcctaggcgg ttccctctgc tccacagaaa ccctgtttta ttgagttctg aaggttggaa 2520 ctgctgccat gattttggcc actttgcaga cctgggactt tagggctaac cagttctctt 2580 tgtaaggact tgtgcctctt gggagacgtc cacccgtttc caagcctggg ccactggcat 2640 ctctggagtg tgtgggggtc tgggaggcag gtcccgagcc ccctgtcctt cccacqqcca 2700 ctgcagtcac cccgtctgcg ccgctgtgct gttgtctgcc gtgagagccc aatcactgcc 2760 tatacccctc atcacacgtc acaatgtccc gaattc 2796

16

```
<210> 40
<211> 26
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      Primer
<400> 40
tgaaggaata cctcacactc aaggcc
                                                                    26
<210> 41
<211> 25
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      Primer
<400> 41
cacggaacac aaaggcactg aatgt
                                                                   25
<210> 42
<211> 20
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
      Cys3His zinc-finger motif
<220>
<221> MOD_RES
<222> (2)..(8)
<223> Variable residue
<220>
<221> MOD_RES
<222> (10)..(15)
<223> Variable residue
<220>
<221> MOD_RES
<222> (17)..(19)
<223> Variable residue
<400> 42
Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys
  1
                                     10
                                                          15
Xaa Xaa Xaa His
```

```
<210> 43
<211> 18
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
     Cys3His zinc-finger motif
<220>
<221> MOD_RES
<222> (2)..(8)
<223> Variable residue
<220>
<221> MOD_RES
<222> (10)..(13)
<223> Variable residue
<220>
<221> MOD_RES
<222> (15)..(17)
<223> Variable residue
<400> 43
1
                 5
                                   10
                                                      15
Xaa His
<210> 44
<211> 58
<212> RNA
<213> Unknown Organism
<220>
<223> Description of Unknown Organism: Preferred
     oligonucleotide of the invention
<400> 44
cucccagacu aaccugucuc gcuuuucccc uccgcugcgg ccacucccug aaccucag 58
<210> 45
<211> 58
<212> DNA
<213> Unknown Organism
<220>
<223> Description of Combined DNA/RNA Molecule: Preferred
     oligonucleotide of the invention
<220>
<223> Description of Unknown Organism: Preferred
     oligonucleotide of the invention
```

```
<400> 45
cucccagacu aaccauaaua auauuucccc uccgcugcgg ccactcccug aaccucag
                                                                  58
<210> 46
<211> 58
<212> RNA
<213> Unknown Organism
<220>
<223> Description of Unknown Organism: Preferred
      oligonucleotide of the invention
<400> 46
cucccagacu aaccugucuc gcuauaauaa uacccugcgg ccacucccug aaccucag 58
<210> 47
<211> 58
<212> RNA
<213> Unknown Organism
<220>
<223> Description of Unknown Organism: Preferred
      oligonucleotide of the invention
<400> 47
cucccagacu aaccugucuc gcuuuucccc ucauaauaau acacucccug aaccucag 58
<210> 48
<211> 58
<212> RNA
<213> Unknown Organism
<220>
<223> Description of Unknown Organism: Preferred
      oligonucleotide of the invention
<400> 48
cucccagacu aaccugucuc gcuuuucccc uccgcugcgg cauaauaaua aaccucag 58
<210> 49
<211> 50
<212> RNA
<213> Unknown Organism
<220>
<223> Description of Unknown Organism: Preferred
      oligonucleotide of the invention
<400> 49
cucccagacu aaccugucuc gcuuuucccc uccgcugcgg ccacucccug
                                                                  50
```

```
<210> 50
<211> 58
<212> RNA
<213> Unknown Organism
<220>
<223> Description of Unknown Organism: Preferred
      oligonucleotide of the invention
<400> 50
cucccagacu aaccuuucuc ccuuuucccc uccccuucgg ccacucccug aaccucag
                                                                   58
<210> 51
<211> 37
<212> RNA
<213> Unknown Organism
<220>
<223> Description of Unknown Organism: Preferred
      oligonucleotide of the invention
<400> 51
cgcuuuccuu ucauucuuuc acuucucugc ugcuuuu
                                                                   37
<210> 52
<211> 12
<212> RNA
<213> Homo sapiens
<400> 52
                                                                   12
ugucucgcuu uu
<210> 53
<211> 10
<212> RNA
<213> Gallus gallus
<400> 53
                                                                   10
ugcugcuuuu
<210> 54
<211> 1114
<212> DNA
<213> Homo sapiens
<400> 54
ccccgctgag actgagcaga cgcctccagg atctgtcggc agctgctgtt ctgagggaga 60
gcagagacca tgtctgacat agaagaggtg gtggaagagt acgaggagga ggagcaggaa 120
gagcaggagg aggcagcgga agaggatgct gaagcagagg ctgagaccga ggagaccagg 180
gcagaagaag atgaagaaga agaggaagca aaggaggctg aagatggccc aatggaggag 240
tccaaaccaa agcccaggtc gttcatgccc aacttggtgc ctcccaagat ccccgatgga 300
gagagagtgg actttgatga catccaccgg aagcgcatgg agaaggacct gaatgagttg 360
caggcgctga tcgaggctca ctttgagaac aggaagaaag aggaggagga gctcgtttct 420
ctcaaagaca ggatcgagag acgtcgggca gagcgggccg agcagcagcg catccggaat 480
```

20

gagaacagga cattttgggg gagcgggaaa ctgaatgaag gaggcagaga ctccgaaaca accgggcgct tgcctccggc	aggagcggca ggaaggctga gttacatcca agaagaagaa atcagctgag agttcgacct ggatcaacga ggaaatagag ctgcactccc gggagctggc	ggatgaggcc gaaggcccag gattctggct ggagaaggcc gcaggagaag taaccagaaa cctggcctcc ccagttcccg	cggaagaaga acagagcgga gagaggagga aaggagctgt ttcaagcagc gtctccaaga ttcaccaaag ggccctcctg	aggctttgtc aaagtgggaa aggtgctggc ggcagagcat agaaatatga cccgcgggaa atctgctcct ggcaccccag	caacatgatg gaggcagact cattgaccac ctataacttg gatcaatgtt ggctaaagtc cgctcgcacc gcagctcctg	600 660 720 780 840 900 960 1020
	taataaaaag			cegeegeee		1114
<210> 55 <211> 1000 <212> DNA <213> Homo	sapiens			•		
<400> 55						
	ccatgtctga					
	aggaggaaga					
	gacccaaact					
	agaagaagcg					
	aagcccggaa					
	gtgcagagag					
	gactggcgga					
	acctgaagaa					
	aggctgacca					
	ctgagagacg					
	ccaaggagct					_
tttggggaga						720
	agctgaaacg					720
caggcccaga	agcacagcaa	gaaggctggg	accccagcca	agggcaaagt	cggcgggcgc	780
caggcccaga tggaagtaga	agcacagcaa gaggccagaa	gaaggctggg aggccctcga	accccagcca ggcagagacc	agggcaaagt ctccgccctc	cggcgggcgc ttgcacacca	780 840
caggcccaga tggaagtaga gggccgctcg	agcacagcaa	gaaggctggg aggccctcga catcctccag	accccagcca ggcagagacc ccccacaat	agggcaaagt ctccgccctc cctgtcaggg	cggcgggcgc ttgcacacca gtctccctga	780 840 900

1000

catcccctgg ggcctgtgaa taaagctgca gaaccccctt